

WHAT IS CLAIMED IS:

1 1. A burner with a plurality of fingers comprising:
 2 a burner head having fingers corresponding in number to said plurality
 3 and having a peripheral wall with a second plurality of ports positioned along the
 4 peripheral wall of each one of said plurality of fingers;
 5 a cap having an overlapping fingers corresponding in number to said
 6 plurality of fingers and having a lip extending laterally beyond the peripheral wall;
 7 a plurality of flame vents connecting adjacent ports along said
 8 peripheral wall.

1 2. The invention as defined in claim 1 wherein each vent
 2 comprises a recess, formed in at least one of said cap and said peripheral wall,
 3 positioned intermediate adjacent ports.

1 3. The invention as defined in claim 2 wherein said recess
 2 includes an expanded transfer area at an intermediate point between said adjacent
 3 ports.

1 4. The invention as defined in claim 2 wherein said recess is
 2 formed in said cap and bounded by a protruding lip.

1 5. The invention as defined in claim 4 wherein said lip comprises
 2 a continuous wall along each said finger.

1 6. The invention as defined in claim 5 wherein said lip is
 2 scalloped.

1 7. A burner for a cooktop comprising:
 2 a base for mounting said burner in a cooktop;
 3 at least one upper member defining at least in part a plurality of ports;
 4 a collar carried by said base;
 5 a stem carried by said at least one upper member;

6 an indexer carried by at least one of said collar and said stem limiting
7 insertion of said stem to at least one predetermined alignment, whereby said indexer
8 aligns said at least one upper member in a said at least one predetermined alignment
9 with said base.

1 8. The invention as defined in claim 7 wherein said indexer
2 comprises a spline.

1 9. The invention as defined in claim 8 wherein said indexer
2 comprises a plurality of splines.

1 10. The invention as defined in claim 7 wherein said base includes
2 an ignitor element and wherein said predetermined alignment positions said ignitor
3 element adjacent one of said ports.

1 11. The invention as defined in claim 7 wherein said at least one
2 member comprises a burner head having a plurality of fingers with a peripheral wall
3 enclosing a gas path and including a plurality of port openings.

1 12. A cooktop burner comprising:
2 a body having a plurality of fingers extending outwardly from a
3 central body portion, said body comprising:
4 a burner head having a central wall, and a peripheral wall on the
5 central wall including a plurality of openings forming ports;
6 a base including a head support for said head, and a support for an
7 ignitor, said head support including a first indexer for limiting insertion of said head
8 to at least one predetermined alignment with respect to said ignitor support; and
9 a burner cap including a covering wall positioned over said peripheral
10 wall, a support for carrying said cap on said head, said support including a second
11 indexer limiting insertion of said cap to a predetermined alignment with respect to
12 said head.

1 13. The invention as described in claim 12 wherein at least one of
2 said indexers includes a spline.

1 14. The invention as described in claim 13 wherein said at least
2 one indexer comprises a plurality of splines.